

### **ABSTRACT**

The invention provides methods and materials for treating inflammatory conditions. Specifically, the invention provides polypeptides, isolated nucleic acids, host cells, and methods that can be used to induce an antibody response in a mammal against an antigen  
5 such as C5 or C5a. For example, the methods and materials described herein can be used to reduce the effects of C5a within a mammal by reducing the amount of total and receptor bound C5a in the mammal.

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